

Delta Part No . : SDET25201B type

Part Name : Sealed Choke

### Sealed Choke Coil SDET25201B type

#### ■ Features

Low profile : 2.5 mm x 2.0 mm x 1.2 mm

Low coil resistance with large currents.

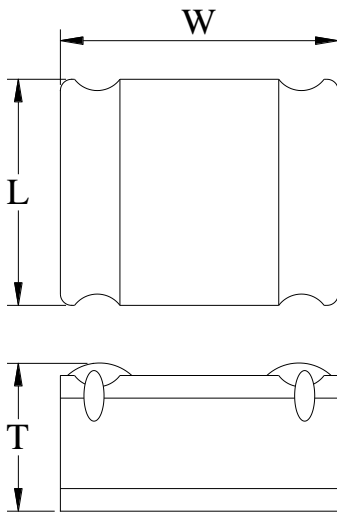
High magnetic shield construction should actualize high resolution for EMC protection.

100% lead (Pb) free meet RoHS standard

#### ■ Application

Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..

#### ■ Outline Dimensions



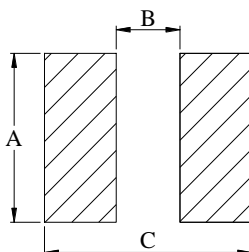
Code	Dimensions
L	2.0 ± 0.2
W	2.5 ± 0.2
T	1.2 Max.

Unit : mm

Note : This graph is in regard to outline dimensions spec. For outer appearance, please refer to actual product.

#### ■ Recommend Land Pattern Dimensions

The customer shall determine the land dimensions shown below after confirming and safety.



A	2.1
B	0.8
C	2.6

Unit : mm

## ■ Specifications

Part Number	L0 Inductance ( $\mu\text{H}$ ) @ (0A)	$R_{dc}$ (m $\Omega$ )		Heat Rating Current DC Amps. Idc ( A )		Saturation Current DC Amps. Isat ( A )	
		Typical	Maximum	Typical	Maximum	Typical	Maximum
SDET25201B-R47MS	0.47	24	28.5	3.70	3.35	3.90	3.50
SDET25201B-1R0MS	1.0	37	43	2.65	2.40	2.75	2.50
SDET25201B-1R5MS	1.5	63	72	2.30	2.07	2.35	2.12
SDET25201B-2R2MS	2.2	80	90	1.90	1.70	2.15	1.95
SDET25201B-3R3MS	3.3	140	155	1.50	1.35	1.70	1.60
SDET25201B-4R7MS	4.7	185	210	1.25	1.13	1.50	1.40
SDET25201B-100MS	10.0	359	409	0.80	0.72	0.85	0.79

\* : If you require another part number please contact with us.

\*\* : Inductance Tolerance  $\pm 20\%$

Note 1. : All test data is referenced to 25°C ambient.

Note 2. : Test Condition:1MHz, 1.0Vrms

Note 3. : Idc : DC current (A) that will cause an approximate  $\Delta T$  of 40°C

Note 4. : Isat : DC current (A) that will cause L0 to drop approximately 30%

Note 5. : Operating Temperature Range -55°C to + 125°C

Note 6. : The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design , component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.

Note 7. : The rated current as listed is either the saturation current or the heating current depending on which value is lower.

### Current Characteristic

